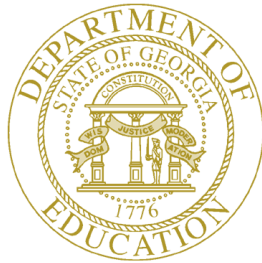


Connections for Classrooms

Georgia 2014-2015 Technology Grants & Related Funding



LEA Inventory/Gap Planning Spreadsheet

Discussion Topics

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Introduction


The **LEA Inventory/Gap Planning Spreadsheet** is an element of the Connections for Classrooms Grant application submission package, designed to assist educators who want help defining equipment specifications that will achieve broadband goals.

- It serves as a tool for educators working with their technology vendors to outline a blueprint for achieving high-speed connectivity.
- It provides valuable insight for grant administrators and other state-level stakeholders who help plan educational funding.
- It is a key artifact of the grant application.

Current & Future Importance

Whether you're well on your way or just making headway on your technology plan, the LEA Inventory/Gap Planning Spreadsheet remains an **important tool**,

- Useful for consideration of Connections for Classrooms Grant applications
- Useful for planning future-year state budgets related to education-centric technology

 **Even if you are not applying** for the Connections for Classrooms Grant, a completed LEA Inventory/Gap Planning Spreadsheet is **requested from each district** for planning purposes.

Spreadsheet Overview

Spreadsheet Basics

- The LEA Inventory/Gap Planning Spreadsheet can be found on the Connections for Classrooms Grant website located at <http://gosa.georgia.gov/connections-classrooms-grant-program>.
- The spreadsheet contains formulas for calculating equipment needs.
- It provides a comprehensive school-level walk-through of the input that is needed to diagnose technology needs.

Spreadsheet Basics

- The spreadsheet consists of four “working” tabs and a tab containing instructions, labeled as follows:
 - Instructions
 - District Level
 - School Level
 - District Level Cost Estimates
 - School Level Cost Estimates
- The District Level and School Level tabs record the current and target states of the district’s broadband systems and identify gaps between the two.
- The District Level Cost Estimates and School Level Cost Estimates tabs notate the costs associated with filling the gaps to reach broadband goals.
- Cells with a purple background (■) contain formulas that are calculated automatically as content in data fields is entered. These fields should not be manually completed.

Tab | Instructions

Provides an overview of the content found on each tab in the spreadsheet, helpful as a quick reference when completing the information.

Tab name	Information description
Step 1	Complete the "District Level" tab questions for your District
Step 2	Complete the "School Level" tab questions for all Schools in your District
Step 3	Complete the "District Level Cost Estimates" for your District
Step 4	Complete the "School Level Cost Estimates" for all Schools in your District
District Level TAB	Prepopulated information
Questions	Explanation
Student Enrollment	Calculated based on student enrollment in School Level tab - if incorrect, please update the enrollment numbers on the School Level tab
Number of Schools	Calculated based on the Count of the Schools in the School Level tab
Aggregate Internet Bandwidth (Mbps)	Enter total Internet bandwidth for the district - assumes Internet access is centralized for the district
Internet Firewall Capacity (Mbps)	Enter maximum firewall throughput based on manufacturers specifications (if limited by network core, please indicate lower number)
URL Filtering Capacity (Mbps)	Enter maximum URL filtering throughput based on manufacturers specifications
Aggregate WAN Bandwidth to Schools (Mbps)	Enter total WAN bandwidth between the district site (where Internet is served) and all schools in the district
Cable Plant Cat5e or Better (Y/N)	Enter (y/n) regarding cable plant infrastructure
School Level TAB	Requested information
Questions	Explanation
Student Enrollment	Number of students currently enrolled at the school - if incorrect, please update
Number of Instructional Areas	Enter number of Instructional Areas at the school (actively used areas that require Internet connectivity for students)
PoE+ Ports per Instructional Area	Enter current number of Power over Ethernet + (802.3at) capable ports per instructional area
802.11n (or better) Wireless Access Points	Enter current number of 802.11n or 802.11ac wireless access points (do not include access points that do not support at least 802.11n)
Committed WAN Speed (Mbps)	
Cable Plant Cat5e or Better (Y/N)	
Target PoE+ Ports per Instructional Area	
Target 802.11n (or better) Wireless Access Points	
District Level Cost Estimates TAB	
Questions	
Cable Plant Upgrade Labor Cost	
Cable Plant Upgrade Materials Cost	
Internet Router Upgrade Cost	
Internet Firewall Upgrade Cost	
URL Filtering / Web Security Upgrade Cost	
District WAN Router Upgrade Cost	
School Level Cost Estimates TAB	
Questions	
Cable Plant Upgrade Labor Cost	
Cable Plant Upgrade Materials Cost	

Tab | District Level

Evaluates broadband readiness for each district based upon prepopulated information for schools and school and information from the district's current technology capabilities.

District	Student Enrollment	Number of Schools	Aggregate Internet Bandwidth (Mbps)	Internet Firewall Capacity (Mbps)	URL Filtering Capacity (Mbps)	Aggregate WAN Bandwidth to Schools (Mbps)	Cable Plant Cat6 or Better (y/n)	Internet Bandwidth Gap (Mbps)	Internet Firewall Capacity Gap (Mbps)	URL Filtering Capacity Gap (Mbps)	Aggregate WAN Bandwidth to Schools Gap (Mbps)
Adair County	1,642	4	400	400	400	400	400	400	400	400	400
Adair County Schools	44,371	101	10,100	10,100	10,100	10,100	10,100	10,100	10,100	10,100	10,100
Bacon County	3,151	3	100	100	100	100	100	100	100	100	100
Baker County	2,808	4	400	400	400	400	400	400	400	400	400
Baldwin County	13,245	19	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900
Barrow County	13,245	19	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900
Ben Hill County	3,151	3	400	400	400	400	400	400	400	400	400
Berrien County	2,808	4	400	400	400	400	400	400	400	400	400
Blackley County	2,432	4	400	400	400	400	400	400	400	400	400
Brantley County	3,573	7	700	700	700	700	700	700	700	700	700
Bremen City	2,147	4	400	400	400	400	400	400	400	400	400
Brooks County	2,214	4	400	400	400	400	400	400	400	400	400
Bryan County	8,299	9	900	900	900	900	900	900	900	900	900
Buford City	3,939	4	400	400	400	400	400	400	400	400	400
Bulloch County	10,019	15	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Burke County	4,416	5	500	500	500	500	500	500	500	500	500
Butts County	3,492	5	500	500	500	500	500	500	500	500	500
Calhoun City	3,860	4	400	400	400	400	400	400	400	400	400

1 District Name											2 Current Environment				3 Internet Readiness Gaps			
The shaded cells below are formula driven. Please do not edit.											The shaded cells below are formula driven. Please do not edit.				The shaded cells below are formula driven. Please do not edit.			
Current Environment											Internet Upgrade Readiness Gap							
District ID	District Name	Spring 2014 FTE-3 Enrollment	Estimated 2014-15 Enrollment	Number of Schools	Aggregate Internet Bandwidth (Mbps)	Internet Firewall Capacity (Mbps)	URL Filtering Capacity (Mbps)	Aggregate WAN Bandwidth to Schools (Mbps)	Cable Plant Cat6 (y/n)		Internet Bandwidth Gap (Mbps)	Internet Firewall Capacity Gap (Mbps)	URL Filtering Capacity Gap (Mbps)	Aggregate WAN Bandwidth to Schools Gap (Mbps)				
5	601 Appling County	3,653	0	6							600	600	600	600				600
6	602 Atkinson County	1,741	0	4							400	400	400	400				400
7	761 Atlanta Public Schools	49,842	0	101							10,100	10,100	10,100	10,100				10,100
8	603 Bacon County	2,064	0	4							400	400	400	400				400
9	604 Baker County	3,117	0	1							100	100	100	100				100
10	605 Baldwin County	5,776	0	6							600	600	600	600				600
11	606 Banks County	2,868	0	4							400	400	400	400				400
12	607 Barrow County	13,245	0	15							1,500	1,500	1,500	1,500				1,500
13	608 Bartow County	14,134	0	19							1,900	1,900	1,900	1,900				1,900
14	609 Ben Hill County	3,303	0	4							400	400	400	400				400
15	610 Berrien County	3,161	0	5							500	500	500	500				500
16	611 Bibb County	23,969	0	41							4,100	4,100	4,100	4,100				4,100
17	612 Bleckley County	2,432	0	4							400	400	400	400				400
18	613 Brantley County	3,573	0	7							700	700	700	700				700
19	763 Bremen City	2,147	0	4							400	400	400	400				400
20	614 Brooks County	2,214	0	4							400	400	400	400				400
21	615 Bryan County	8,299	0	9							900	900	900	900				900
22	764 Buford City	3,939	0	4							400	400	400	400				400
23	616 Bulloch County	10,019	0	15							1,500	1,500	1,500	1,500				1,500
24	617 Burke County	4,416	0	5							500	500	500	500				500
25	618 Butts County	3,492	0	5							500	500	500	500				500
26	765 Calhoun City	3,860	0	4							400	400	400	400				400
27	619 Calhoun County	6,666	0	3							300	300	300	300				300

Tab | District Level

There are 3 primary areas of the District Level tab:

1. District Name		2. Current Environment	3. Internet Upgrade Readiness Gap
Data Fields	District ID ^{POP}	Spring 2014 FTE-3 Enrollment ^{POP}	Internet Bandwidth Gap ^{CALC}
	District Name ^{POP}	Estimated 2014-15 Enrollment ^{CALC}	Internet Firewall Capacity Gap ^{CALC}
		Number of Schools ^{CALC}	URL Filtering Capacity Gap ^{CALC}
		Aggregate Internet Bandwidth ^{ENTRY}	Aggregate WAN Bandwidth to Schools Gap ^{CALC}
		Internet Firewall Capacity ^{ENTRY}	
		URL Filtering Capacity ^{ENTRY}	
		Aggregate WAN Bandwidth to Schools ^{ENTRY}	
		Cable Plant Cat 5e or better ^{ENTRY}	

^{POP} = Prepopulated field | ^{ENTRY} = Entry field | ^{CALC} = Auto-calculated field

Tab | School Level

Evaluates each school's need for WAN, wireless and PoE+ ports based upon school enrollment and information on the school's current and target technology capabilities.

District	School	Student Enrollment	Number of Instructional Areas	PoE+ Ports per Instructional Area	WAN Speed (Mbps)	Cable Plant Cat6 or Better (y/n)	Target PoE+ Ports per Instructional Area	Target WAN Speed (Mbps)	Target PoE+ Ports per Instructional Area	Target WAN Speed (Mbps)	WAN Gap (Mbps)	PoE+ Port Gap	Wireless Access Point Gap
Apppling County	Apppling County Elementary School	304	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Elementary School	304	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County High School	966	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Middle School	586	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Primary School	107	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Secondary School	107	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County High School	408	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Middle School	105	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Primary School	208	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Secondary School	208	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County High School	231	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Middle School	231	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Primary School	433	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Secondary School	433	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County High School	104	1	100	100	Y	100	100	100	100	0	0	0

District	School	Student Enrollment	Number of Instructional Areas	PoE+ Ports per Instructional Area	WAN Speed (Mbps)	Cable Plant Cat6 or Better (y/n)	Target PoE+ Ports per Instructional Area	Target WAN Speed (Mbps)	Target PoE+ Ports per Instructional Area	Target WAN Speed (Mbps)	WAN Gap (Mbps)	PoE+ Port Gap	Wireless Access Point Gap
Apppling County	Apppling County Elementary School	304	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Elementary School	304	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County High School	966	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Middle School	586	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Primary School	107	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Secondary School	107	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County High School	408	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Middle School	105	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Primary School	208	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Secondary School	208	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County High School	231	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Middle School	231	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Primary School	433	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County Secondary School	433	1	100	100	Y	100	100	100	100	0	0	0
Apppling County	Apppling County High School	104	1	100	100	Y	100	100	100	100	0	0	0

Tab | School Level

There are 4 primary areas of the School Level tab:

1. District and School Name		2. Current Environment	3. Target Environment	4. Internet Upgrade Readiness Gap
Data Fields	District ID ^{POP}	Spring 2014 FTE-3 Enrollment ^{POP}	Target PoE+ Ports per Instructional Area ^{ENTRY}	WAN Gap ^{CALC}
	District Name ^{POP}	Estimated 2014-15 Enrollment ^{ENTRY}	Target 802.11n (or better) Wireless Access Points ^{ENTRY}	PoE+ Port Gap ^{CALC}
	School ID ^{POP}	Number of Instructional Areas ^{ENTRY}		Wireless Access Point Gap ^{CALC}
	School Name ^{POP}	PoE+ Ports per Instructional Area ^{ENTRY}		
		802.11n (or better) Wireless Access Points ^{ENTRY}		
		WAN Speed ^{ENTRY}		
		Cable Plant Cat 5e or better ^{ENTRY}		

POP = Prepopulated field | ENTRY = Entry field | CALC = Auto-calculated field

Tab | District Level Cost Estimates

A third party evaluation of the pricing for primary broadband equipment and cable materials and labor to fill the technology gaps indicated by the District Level tab.

1 District Name

2 Upgrade Cost Estimates

District	Cable Plant Upgrade Labor Cost	Cable Plant Upgrade Materials Cost	Internet Router Upgrade Cost	Internet Firewall Upgrade Cost	URL Filtering / Web Security Upgrade Cost	District WAN Router Upgrade Cost
Appling County						
Atkinson County						
Atlanta Public Schools						
Bacon County						
Baker County						
Baldwin County						
Banks County						
Barrow County						
Bartow County						
Ben Hill County						
Berrien County						
Bibb County						

Tab | District Level Cost Estimates

There are 2 primary areas of the District Level Cost Estimates tab:

1. District Name		2. Upgrade Cost Estimates
Data Fields	District ID ^{POP}	Cable Plant Upgrade Labor Cost ^{ENTRY}
	District Name ^{POP}	Cable Plant Upgrade Materials Cost ^{ENTRY}
		Internet Router Upgrade Cost ^{ENTRY}
		Internet Firewall Upgrade Cost ^{ENTRY}
		URL Filtering / Web Security Upgrade Cost ^{ENTRY}
		District WAN Router Upgrade Cost ^{ENTRY}

POP = Prepopulated field | ENTRY = Entry field

Tab | School Level Cost Estimates

A third party evaluation of the pricing for primary broadband equipment and cable materials and labor to fill the technology gaps indicated by the School Level tab.

District	School	Cable Plant Upgrade Labor Cost	Cable Plant Upgrade Materials Cost	School WAN Router Upgrade Cost	PoE+ Port Upgrade Cost	Wireless Access Point Upgrade Cost
Appling County	Altamaha Elementary School					
Appling County	Appling County Elementary School					
Appling County	Appling County High School					
Appling County	Appling County Middle School					
Appling County	Appling County Primary School					
Appling County	Fourth District Elementary School					
Atkinson County	Atkinson County High School					
Atkinson County	Atkinson County Middle School					
Atkinson County	Pearson Elementary School					
Atkinson County	Willacoochee Elementary School					
Atlanta Public Schools	Adamsville Primary School					
Atlanta Public Schools	APS-Forrest Hills Academy					

Tab | School Level Cost Estimates

There are 2 primary areas of the School Level Cost Estimates tab:

1. District and School Name		2. Upgrade Cost Estimates
Data Fields	District ID ^{POP}	Cable Plant Upgrade Labor Cost ^{ENTRY}
	District Name ^{POP}	Cable Plant Upgrade Materials Cost ^{ENTRY}
	School ID ^{POP}	School WAN Router Upgrade Cost ^{ENTRY}
	School Name ^{POP}	PoE+ Port Upgrade Cost ^{ENTRY}
		Wireless Access Point Upgrade Cost ^{ENTRY}

POP = Prepopulated field | ENTRY = Entry field

Grant Program Contacts

Contact Information

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404-971-1704

Website for Grant Updates

<http://gosa.georgia.gov/connections-classrooms-grant-program>

Secondary Contacts

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Spreadsheet Q&A